

Library Resource Form Required for New Non-Gen-Ed

Submission Deadlines: Fall - October 10, 2006 Spring - February 13, 2007

TITLE Minor Curricular Changes Biometry (STAT 62.280)  
Change in pre-requisites, addition of co-requisite for transfer students

Sponsor's Dexter Whittinghill e-mail whittinghill@rowan.edu

DEPARTMENT Mathematics  
College CLAS

CLAS check  History/Humanities  Social Behavioral Sciences

Math Science

UNDERGRADUATE  GRADUATE

New non-gen-ed  Major

Short-Term non-gen-ed

Minor curricular changes (fewer than three to

Existing non-gen-ed course

Non-gen-ed degree requirements

Major

Minor specialization/concentration/track/certificate program

Signatures Required: representing approval before submission to Office of the Senate

Department Chair [Signature] Date: 10/16/06  
Department CURRICULUM Chair [Signature] Date: 10/16/06  
Academic DEAN [Signature] Date: 10/16/06

COLLEGE CURRICULUM COMMITTEE Open Hearing Date 11/16/06  
Approved 11/30/06  
Not Approved \_\_\_\_\_

Signature: College Curriculum Chair [Signature]

Signature: SENATE CURRICULUM CHAIR [Signature]  
Date 11/16/06

Comments \_\_\_\_\_

Signature: Executive Vice President/Provost [Signature] Date 1/2/07

Signature: REGISTRAR [Signature]  
Date 1/5/07  
Course Description Received & Approved  
Hegis Term(s) & Course # \_\_\_\_\_

Notification Forward:  SDC CHAIR  Academic Dean  
 \_\_\_\_\_  Department Chair  
 CAP  VP Student Affairs  
 Registrar  Other \_\_\_\_\_

1-17-07 Jml

## Minor Curricular Change

### **Biometry (STAT 02.280, formerly 1702.280): Change in course pre-requisites, addition of co-requisite for transfer students**

#### **1. Details**

*a. Changes Requested:*

Change in course pre-requisites.

From: Biology I (BIOL 01.100, formerly 0401.100), Biology II (BIOL 01.101, formerly 0401.101), and Calculus I (MATH 01.130, formerly 1701.130)

To: Calculus I (MATH 01.130) and one of the following: either a) prerequisites Biology 1: Diversity, Evolution and Adaptation (BIOL 01.104) and Biology 2: Concepts in Genetics (BIOL 01.106), or b) the co-requisite Biology 3T (BIOL 01.202)

*b. Sponsors:* Dr. Dexter Whittinghill, Associate Professor, Department of Mathematics.

*c. Resources:* Since this is not a new course, a library resource form is not needed.

#### **2. Rationale**

*a. Statement of Need:*

Replacement of Biology I & II (BIOL 01.100 & BIOL 01.101) with Biology 1 (BIOL 01.104) and 2 (BIOL 01.106): The Department of Biological Sciences is currently implementing Curricular Proposal SCC # 05-06-821, which received final approval during the Spring 2006 semester. One of the changes called for in that proposal is the replacement of the Biology I & II (BIOL 01.100 & BIOL 01.101) two-course core, with a new four course core sequence. Biometry (STAT 02.280) was created before the full extent of the Department of Biological Sciences curriculum changes were known, and currently lists Biology I & II (BIOL 01.100 & BIOL 01.101) as its prerequisites. Thus, in order for students to be able to register for Biometry (STAT 02.280), the new Biological Sciences core course prerequisites must be updated.

For Transfer Students only: As the institutions from which the transfer students will still be teaching “their Biology I & II (BIOL 01.100 & BIOL 01.101),” these students will need to be allowed to join the new Biological Sciences core sequence as soon as possible. In order to facilitate this transition, these students will be allowed to count their Biology I & II (BIOL 01.100 & BIOL 01.101), and then will be required to take a specially designed Biology 3T (BIOL 02.202), simultaneously with Biometry (STAT 02.280), before joining the new Biological Sciences core sequence with the final course, Biology 4 (BIOL 02.204).

Because the content of Biometry (STAT 02.280) is not changing, there is no need to change the Calculus I (MATH 01.130) pre-requisite.

*b. Statement of Curricular Effect:* Updating the pre-requisites of this course will permit students to register for the course. Native students who have completed the outgoing Biological Sciences core, and transfer students who have taken Biology I & II (BIOL 01.100 & BIOL 01.101) at their previous institution, will not be “frozen out,” as they will be permitted to enroll in the course by using the pre-requisite waiver form.

The content of the course is not changing, and is neither a cause nor an effect of this proposal.

### **3. Results of consultation**

Consultations were conducted within the Department of Biological Sciences.

## CATALOG DESCRIPTION

**Course Title:** Biometry (STAT 02.280)

**Alphanumeric Number:** STAT 02.280

**Pre-requisites:** Calculus I (MATH 01.130) and one of the following: either a) Biology 1: Diversity, Evolution and Adaptation (BIOL 01.104) and Biology 2: Concepts in Genetics (BIOL 01.106), or b) the co-requisite Biology 3T (BIOL 01.202).

**Number of credits:** 4

### **Description:**

This laboratory course considers elementary data analysis, probability and sampling distributions. It uses the normal and  $t$ -distributions to introduce estimation and hypotheses testing. It includes descriptive techniques and inference for simple linear regression and correlation. Analyses of variance, nonparametric tests and chi-square tests are covered in this course. Emphasis is placed on experimentation and the application of statistical methods to the biological sciences. Computer software is used regularly in data manipulation, statistical analyses, and formal presentation of results.

13 October 2006

MEMO TO: Dexter Whittinghill, Dept. Mathematics

From: Gregory Hecht, Chairperson Biological Sciences

Dex,

Thank you for writing and sharing your curricular proposal entitled "Biometry (STAT 02.280, formerly 1702.280): Change in course pre-requisites, addition of co-requisite for transfer students."

The updating of the Biology pre-requisite for native students and the implementation of the Biology co-requisite for transfer students will provide the same functions as the original pre-requisites for the Biometry course.

The Biological Sciences Department enthusiastically supports this proposal, and is very appreciative that you and the Mathematics Department have invested the time to put it together.

Note The hardcopy is due in the mail. See attached e-mail noting this

4a+b: until hardcopy arrives

**Whittinghill, Dexter C., III**

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**From:** Hecht, Gregory B.  
**Sent:** Friday, October 13, 2006 5:57 PM  
**To:** Whittinghill, Dexter C., III  
**Subject:** Re: Biometry



Biometry-consult.doc  
c (27 KB)

Thanks, Dex! I think that this is good. I've attached my letter, and a hard copy will go into the mail on Monday.

Thanks again for all of your work!

Greg

On 10/11/06 10:34 AM, "Whittinghill, Dexter C., III"  
<Whittinghill@rowan.edu> wrote:

> Greg,  
>  
> This is the latest version of the minor change, and it now includes  
> the transfer option. It was adjusted by me and cleaned up by Courtney ...  
> Who is now out of the loop.  
>  
> I don't think my letter to you needs to be changed.  
>  
> We will try to do it this fall.  
>  
> Dex  
>  
> \*\*\*\*\*  
> Dexter C. Whittinghill III  
> Department of Mathematics  
> Rowan University  
> 201 Mullica Hill Rd.  
> Glassboro, NJ 08028  
>  
> e-mail: whittinghill@rowan.edu  
> Phone: 856-256-4500 x3879  
> FAX: 856-256-4816  
>  
> <http://www.rowan.edu/mars/depts/math/whittinghill/Dexpage.html>  
>  
> We are using Outlook 2003.  
> \*\*\*\*\*  
>



*Biological Sciences*

13 October 2006

MEMO TO: Dexter Whittinghill, Dept. Mathematics

From: Gregory Hecht, Chairperson Biological Sciences

A handwritten signature in black ink, appearing to read "G. Hecht", written over the name in the "From:" line.

Dex,

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